

Serial No.

Docket No.: RD-27,767-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Radislav Alexandrovich Potyrailo

Serial No.:

Filed:

Group Art Unit:

For: SYSTEMS AND METHODS FOR RAPID EVALUATION OF CHEMICAL RESISTANCE OF MATERIALS

INFORMATION DISCLOSURE STATEMENTHonorable Assistant Commissioner of Patents
Washington, DC 20231

SIR:

This Information Disclosure Statement is being filed under 37 C.F.R. §1.56 for a continuing application, which relies on the filing date of its parent application, such parent application being identified as:

U.S. Patent Application Serial No.: 09/681,431

Examiner: Brian J. Sines

Filed: April 4, 2001

Allowed Date:

Inventor(s): Radislav Alexandrovich Potyrailo

Confirmation No:

Art Unit: 1743

Title: SYSTEMS AND METHODS FOR RAPID EVALUATION OF CHEMICAL RESISTANCE OF MATERIALS

Enclosed are copies of PTO-892 and PTO-1449 Forms listing all "prior art" cited and submitted in the parent application. Pursuant to 37 C.F.R. §1.98(d), no actual copies of the documents listed are being furnished to the PTO with this Information Disclosure Statement.

Respectfully submitted,



Andrew J. Caruso

Patent Attorney

DATE: March 16, 2004

REGISTRATION NO: 48,520

TELEPHONE: (518) 387-7354

General Electric Company
CRD Patent Docket Room 4A59
PO Box 8,
Schenectady, New York 12305

Form PTO-1449

U.S. Department of Commerce
Patent & Trademark Office

Atty. Docket No.:

RD-27,767

Serial No.:

09/681,431

Unassigned

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant(s):

Radislav Potyrailo

Filing Date:

4/4/01

Herewith

Group:

1743

Unassigned

U.S. PATENT DOCUMENTS

| Examiner * Initial | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
|-----------------------|--------------------|----------------|--------------------|-------|----------|-------------------------------|
| | 4,673,299 | June 16, 1987 | Dakin | | | |
| | 5,106,938 | April 21, 1992 | Bookbinder et al. | | | |
| | 5,233,194 | Aug. 3, 1993 | Mauze et al. | | | |
| | 5,237,631 | Aug. 17, 1993 | Gavish et al. | | | |
| | 5,356,668 | Oct. 18, 1994 | Paton et al. | | | |
| | 5,451,632 | Sept. 19, 1995 | Okumura et al. | | | |
| | 5,488,086 | Jan. 30, 1996 | Umeda et al. | | | |
| | 5,519,096 | May 21, 1996 | Hara | | | |
| | 5,528,040 | June 18, 1996 | Lehmann | | | |
| | 5,644,017 | July 1, 1997 | Drumright et al. | | | |
| | 5,674,943 | Oct. 7, 1997 | Farah et al. | | | |
| | 5,708,957 | Jan. 13, 1998 | Chuang et al. | | | |
| | 5,717,056 | Feb. 10, 1998 | Varadarajan et al. | | | |
| | 5,744,794 | April 28, 1998 | Michie et al. | | | |
| | 5,919,526 | July 6, 1999 | Eckberg et al. | | | |
| | 5,919,886 | July 6, 1999 | Matsuda et al. | | | |
| | 5,969,066 | Oct. 19, 1999 | Enokida et al. | | | |
| | 5,973,068 | Oct. 26, 1999 | Yamaya et al. | | | |
| | 5,973,126 | Oct. 26, 1999 | Ueno et al. | | | |
| | 5,981,008 | Nov. 9, 1999 | Hofmann | | | |
| | 5,981,073 | Nov. 9, 1999 | Pickett et al. | | | |
| | 5,990,188 | Nov. 23, 1999 | Patel et al. | | | |
| | 6,010,616 | Jan. 4, 2000 | Lewis et al. | | | |
| | 6,034,775 | March 7, 2000 | McFarland et al. | | | |
| | 6,087,181 | July 11, 2000 | Cong | | | |
| | 6,093,308 | July 25, 2000 | Lewis et al. | | | |
| | 6,151,123 | Nov. 21, 2000 | Nielsen | | | |
| | 6,157,449 | Dec. 5, 2000 | Hajduk | | | |
| | 6,182,499 | Feb. 6, 2001 | McFarland et al. | | | |

FOREIGN PATENT DOCUMENTS

| Examiner * Initial | Document Number | Date | Country | Class | Subclass | Translation | |
|-----------------------|-----------------|---------------|---------|-------|----------|-------------|----|
| | | | | | | Yes | No |
| | WO 00/36410 | June 22, 2000 | PCT | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Page, Etc.)

| Examiner * Initial | Title/Author/Publisher/Year Published/Page(s) |
|-----------------------|---|
| | Rharbi, Y.; Yekta, A.; Winnik, M.A., "A Method for Measuring Oxygen Diffusion and Oxygen Permeation in Polymer Films Based on Fluorescence Quenching", <i>Anal. Chem.</i> 1999, 71, 5045-5053. |
| | Lowry, J.H.; Mendlowitz, J.S.; Subramanian, N.S., "Optical Characteristics of Teflon AF Fluoroplastic Materials", <i>Opt. Eng.</i> 1992, 31, 1982-1985. |
| | Buck, W.H.; Resnick, P.R.; "Properties of Amorphous Fluoropolymer Based on 2,2-Bistrifluoromethyl-4,5-Difluoro-1,3-Dioxole", <i>183rd Meeting of the Electrochemical Society</i> , 1993. |
| | Mills, A.; Lepre, A., "Controlling the Response Characteristics of Luminescent Porphyrin Plastic Film Sensors for Oxygen", <i>Anal. Chem.</i> 1997, 69, 4653-4659. |
| | Lee, S.K.; Okura, I. "Photoluminescent Determination of Oxygen Using Metalloporphyrin Polymer Sensing Systems", <i>Spectrochim. Acta</i> 1998, 54A, 91-100. |
| | Amao, Y.; Asai, K.; Miyashita, T.; Okura, I., "Novel Optical Oxygen Pressure Sensing Materials: Platinum Porphyrin-Styrene-Trifluoroethylmethacrylate Copolymer Film", <i>Chem. Lett.</i> 1999, 1031-1032. |
| | Prince, Barry J.; Schwabacher, Alan W.; Geissinger, Peter, "A Readout Scheme Providing High Spatial Resolution for Distributed Fluorescent Sensors on Optical Fibers", <i>Anal. Chem.</i> , 2000, Page Est:8.4 (A-I). |
| | Dakin, J.P., "Distributed Optical Fiber Sensors", <i>Proc. SPIE-Int. Soc. Opt. Eng.</i> , 1797, (1992), 76-108. |
| | Potyrailo, R.A.; Hieftje, G.M., "Optical Time-of-Flight Chemical Detection: Spatially Resolved Analyte Mapping with Extended-Length Continuous Chemically Modified Optical Fibers", <i>Anal. Chem.</i> , 1998, 70, 1453-1461. |
| | Potyrailo, R.A.; Hieftje, G.M., "Optical Time-of-Flight Chemical Detection: Absorption-Modulated Fluorescence for Spatially Resolved Analyte Mapping in a Bidirectional Distributed Fiber-Optic Sensor" <i>Anal. Chem.</i> 1998, 70, 3407-3412. |
| | Potyrailo, R.A.; Hieftje, G.M., "Spatially Resolved Analyte Mapping with Time-of-Flight Optical Sensors", <i>Trends Anal. Chem.</i> , 1998, 17, 593-604. |
| | Van Dover, R.B.; Schneemeyer, L.F.; Fleming, R.M., "Discovery of a Useful Thin-Film Dielectric Using a Composition-Spread Approach", <i>Nature</i> , Vol. 392, 1998, pp. 162-164. |
| | Hanak, J.J., "The 'Multiple-Sample Concept' in Materials Research: Synthesis, Compositional Analysis and Testing of Entire Multicomponent Systems", <i>Journal of Materials Science</i> , 1970, pp. 964-971. |
| | Ward, Michael D.; Buttry, Daniel A., "In Situ Interfacial Mass Detection with Piezoelectric Transducers", <i>Science</i> , Vol. 249, 1990, pp. 1000-1007. |
| | Hierlemann, A.; Ricco, A.J.; Bodenhöfer, K.; Göpel, W., "Effective Use of Molecular Recognition in Gas Sensing: Results From Acoustic Wave and in Situ FT-IR Measurements", <i>Anal. Chem.</i> , 1999, 71, pp. 3022-3035. |
| | Thomas, R.C.; Hierlemann, A.; Staton, A.W.; Hill, M.; Ricco, A.J., "Reflectance Infrared Spectroscopy on Operating Surface Acoustic Wave Chemical Sensors During Exposure to Gas-Phase Analytes", <i>Anal. Chem.</i> , 1999, 71, pp. 3615-3621. |
| | Furuki, M.; Lyong, S.P., "Hybrid Gas Detector of Squarylium Dye Langmuir-Blodgett Film Deposited on a Quartz Oscillator", <i>Thin Solid Films</i> , 1992, pp. 471-473. |
| | Furuki, M.; Lyong, S.P., "Gas Detection by a Multi-Hybrid Sensor with Dye Langmuir-Blodgett Films Deposited on a Quartz Oscillator", <i>Mol. Cryst. Liq. Cryst.</i> , 1993, 227, pp.325-337. |

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional)

RD27767-2

Application Number

10/681,431

Applicant(s)

Potyrailo

Filing Date

04/04/2001

Group Art Unit

1743

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | REF | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|-----------------|----------|------------------|-------|----------|-------------------------------|
| | | 5,756,631 | 05/26/98 | Grate | | | |
| | | 5,788,833 | 08/04/98 | Lewis et al. | | | |
| | | 5,985,356 | 11/16/99 | Schultz et al. | | | |
| | | 6,004,617 | 12/21/99 | Schultz et al. | | | |
| | | 6,015,869 | 01/18/00 | Grate et al. | | | |
| | | US 6,357,278 B1 | 03/19/02 | Sivavec et al. | | | |
| | | US 6,535,822 B2 | 03/18/03 | Mansky et al. | | | |
| | | US 6,535,824 B1 | 03/18/03 | Mansky et al. | | | |
| | | US 6,537,498 B1 | 03/25/03 | Lewis et al. | | | |
| | | US 6,544,334 B1 | 04/08/03 | Potyrailo et al. | | | |
| | | 2003/0077390 A1 | 04/24/03 | Potyrailo et al. | | | |

FOREIGN PATENT DOCUMENTS

| REF | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | Translation | |
|-----|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

| | | |
|--|--|--|
| | | |
| | | |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-A820

POB/REV04

Patent and Trademark Office * U.S. DEPARTMENT OF COMMERCE

(also form PTO-1449)

PAGE 17/19 * RCVD AT 3/16/2004 5:03:30 PM [Eastern Standard Time] * SVR:USPTO-EFXXF-1/3 * DNS:8729306 * CSID:5183877751 * DURATION (mm-ss):05-32

OF 2 17/17

Notice of References Cited

Application/Control No.

09/681,431

Applicant(s)/Patent Under

Reexamination

POTYRAILO, RADISLAV ALEX

Examiner

Brian J. Sines

Art Unit

1743

Page 1 of 1

U.S. PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Name | Classification |
|---|---|--|-----------------|--------------------|----------------|
| | A | US-6,284,311 B1 | 09-2001 | Gregorovich et al. | 427/185 |
| | B | US-6,360,585 B1 | 03-2002 | Potyrailo et al. | 73/24.06 |
| | C | US-5,117,146 A | 05-1992 | Martin et al. | 310/313R |
| | D | US-6,553,318 B2 | 04-2003 | Mansky | 702/22 |
| | E | US-6,494,079 B1 | 12-2002 | Matsiev et al. | 73/24.05 |
| | F | US-6,393,895 B1 | 05-2002 | Matsiev et al. | 73/24.06 |
| | G | US-4,312,228 | 01-1982 | Wohljen | 73/597 |
| | H | US-4,596,897 | 06-1986 | Ballato | 422/98 |
| | I | US-5,201,215 A | 04-1993 | Granstaff et al. | 73/54.41 |
| | J | US- | | | |
| | K | US- | | | |
| | L | US- | | | |
| | M | US- | | | |

FOREIGN PATENT DOCUMENTS

| * | | Document Number Country Code-Number-Kind Code | Date MM-YYYY | Country | Name | Classification |
|---|---|--|-----------------|---------|------|----------------|
| | N | | | | | |
| | O | | | | | |
| | P | | | | | |
| | Q | | | | | |
| | R | | | | | |
| | S | | | | | |
| | T | | | | | |

NON-PATENT DOCUMENTS

| * | | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
| | U | |
| | V | |
| | W | |
| | X | |

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
 Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
 PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 4